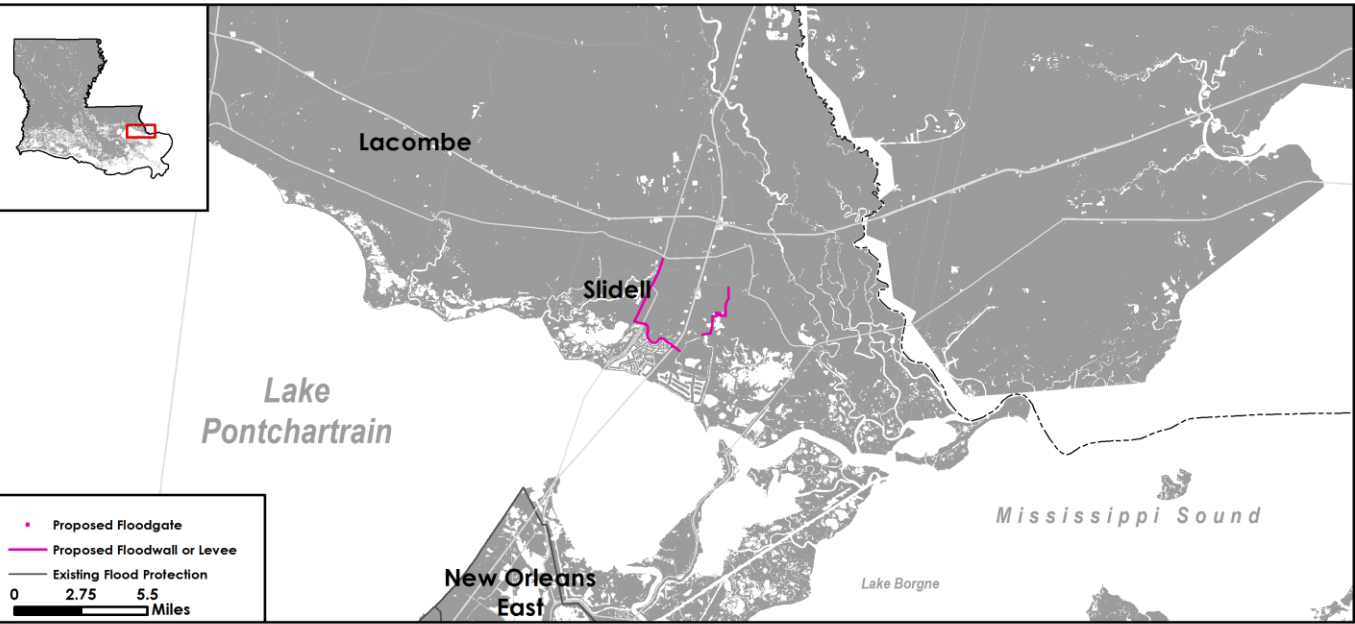


# Slidell Ring Levees

## Structural Protection

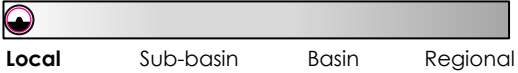
Project ID: 001.HP.13



### Description

Construction of a levee to an elevation of 16 feet NAVD88 for storm surge risk reduction around Slidell. Project features approximately 31,000 feet of earthen levee and 14,500 feet of T-wall.

### Scale of Influence



### Project Location

St. Tammany Parish

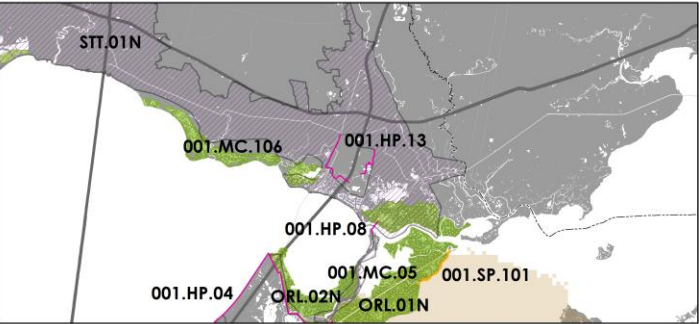
### Project Duration

Planning, Engineering, and Design is estimated to take 2 years.  
Construction is estimated to take 1 year.

### Project Cost Estimate

	Estimated Cost
Planning/Engineering & Design	\$20,400,000
Construction	\$141,000,000
Operations & Maintenance	\$19,900,000
<b>Total</b>	<b>\$181,300,000</b>

### Other Nearby Projects in the Master Plan



### Other Project Area Statistics

<b>Estimated Current Population</b> U.S. Census (2010), U.S. Dept. of Energy Oak Ridge National Laboratory, Land Scan (2011)	20,000
<b>Percent of Population who are Low-to-Moderate Income</b> American Community Survey (2006 - 2010)	41%
<b>Number of Severe Repetitive Loss Properties</b> Governor's Office of Homeland Security (2015)	440

# Slidell Ring Levees

## Structural Protection

Project ID: 001.HP.13



### Economic Damage

Structural protection projects are evaluated by how they reduce Expected Annual Damage (EAD) for a particular area. EAD represents the average direct economic damage projected to result from storm surge flooding events, from Category 1 or greater storms, in any given year, taking into account both the expected damage and the overall frequency of such storms occurring. EAD is a summary measure of the potential damage averaged over the entire distribution of possible flood events. Damage is also summarized at various return periods (DRP), e.g., 100-year damage being the damage with a 1% chance of occurring or being exceeded in a given year. The following are the economic damage summaries for the Future Without Action (FWOA) and Future With Project (FWP) conditions, for the project as a whole (Table 2), and for each Risk Region (Table 3). EAD and DRP values are reported in millions of dollars.

Table 2: Expected Annual Damage

Year	FWOA	FWP	Difference
0	\$517 M	-	-
25	\$1,255 M	\$823 M	\$432 M
50	\$2,688 M	\$1,904 M	\$784 M

### Critical Infrastructure

The data in Table 1 was provided by GOHSEP and the Homeland Security Infrastructure Program (HSIP). "Protected" assets are those that otherwise flood in FWOA conditions but are protected by the project.

Table 1: Critical Infrastructure Counts

Asset Type	Protected	Total
Airport Facility	-	-
Gas Processing	-	-
Government/Military	-	1
Electric Power Substation	-	11
Liquefied Natural Gas Terminal	-	-
Louisiana Offshore Oil Port	-	-
Manufacturing/Chemical	-	3
Electric Power Plant	-	4
Port	-	-
Petroleum Pump Station	-	-
Refinery	-	-
Water and Sewer	1	3
Strategic Petroleum Reserve	-	-
Total	1	22

Table 3: Economic Damage by Return Period at Year 50

Risk Region	50 Year		100 Year		500 Year	
	FWOA	FWP	FWOA	FWP	FWOA	FWP
Orleans - Lake Catherine	\$340 M	\$340 M	\$342 M	\$342 M	\$351 M	\$351 M
Orleans - New Orleans	\$9,351 M	\$9,753 M	\$22,629 M	\$22,675 M	\$47,244 M	\$46,173 M
Orleans - Rigolets	\$129 M	\$130 M	\$130 M	\$130 M	\$130 M	\$130 M
St. Tammany	\$14,001 M	\$14,059 M	\$24,531 M	\$23,533 M	\$34,024 M	\$33,931 M
St. Tammany - Slidell	\$18,532 M	\$4,762 M	\$21,568 M	\$6,888 M	\$25,013 M	\$28,982 M
Total	\$42,353 M	\$29,043 M	\$69,199 M	\$53,567 M	\$106,762 M	\$109,566 M